AMENDMENTS TO THE CLAIMS

Please cancel claims 1-8, and add new claims 9-35, as follows.

Listing of Claims

1-8. (CANCELED)

9. (NEW) A process for producing lactoperoxidase comprising: a step (1) for

bringing one or more milk materials into contact with a cation exchanger having weakly

acidic groups as ion exchange groups to thereby effect adsorption treatment; a step (2)

for washing the cation exchanger after said adsorption treatment; a step (3) for bringing

said washed cation exchanger into contact with a leaching solvent which elutes

lactoperoxidase, to thereby obtain a leaching solution having lactoperoxidase eluted into

said leaching solvent; a step (4) for concentrating said leaching solution through an

ultrafiltration membrane to thereby effect precipitation in the concentrated leaching

solution; and a step (5) for obtaining a lactoperoxidase solution by removing the

precipitation from said concentrated leaching solution.

10. (NEW) A process for producing lactoperoxidase according to claim 9, wherein a

lactoferrin adsorption capacity of said cation exchanger is 85 mg/10 ml or more.

11. (NEW) A process for producing lactoperoxidase according to claim 9, wherein

said ion exchange groups are carboxymethyl groups.

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12. (NEW) A process for producing lactoperoxidase according to claim 10, wherein

said ion exchange groups are carboxymethyl groups.

13. (NEW) A process for producing lactoperoxidase according to claim 9, wherein, in

said step (4), the concentration is performed so that a protein content in said

concentrated leaching solution becomes 0.9 to 15%, to thereby effect precipitation.

14. (NEW) A process for producing lactoperoxidase according to claim 10, wherein,

in said step (4), the concentration is performed so that a protein content in said

concentrated leaching solution becomes 0.9 to 15%, to thereby effect precipitation.

15. (NEW) A process for producing lactoperoxidase according to claim 11, wherein,

in said step (4), the concentration is performed so that a protein content in said

concentrated leaching solution becomes 0.9 to 15%, to thereby effect precipitation.

16. (NEW) A process for producing lactoperoxidase according to claim 9, wherein

an ionic strength of the leaching solvent used in said step (3) is 0.07 to 0.3.

17. (NEW) A process for producing lactoperoxidase according to claim 10, wherein

an ionic strength of the leaching solvent used in said step (3) is 0.07 to 0.3.

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18. (NEW) A process for producing lactoperoxidase according to claim 11, wherein

an ionic strength of the leaching solvent used in said step (3) is 0.07 to 0.3.

19. (NEW) A process for producing lactoperoxidase according to claim 13, wherein

an ionic strength of the leaching solvent used in said step (3) is 0.07 to 0.3.

20. (NEW) A process for producing lactoperoxidase according to claim 16, wherein

the leaching solvent used in said step (3) is an aqueous solution containing at least one

salt selected from a group consisting of sodium chloride, potassium chloride, calcium

chloride, and magnesium chloride.

21. (NEW) A process for producing lactoperoxidase according to claim 17, wherein

the leaching solvent used in said step (3) is an aqueous solution containing at least one

salt selected from a group consisting of sodium chloride, potassium chloride, calcium

chloride, and magnesium chloride.

22. (NEW) A process for producing lactoperoxidase according to claim 18, wherein

the leaching solvent used in said step (3) is an aqueous solution containing at least one

salt selected from a group consisting of sodium chloride, potassium chloride, calcium

chloride, and magnesium chloride.

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23. (NEW) A process for producing lactoperoxidase according to claim 19, wherein

the leaching solvent used in said step (3) is an aqueous solution containing at least one

salt selected from a group consisting of sodium chloride, potassium chloride, calcium

chloride, and magnesium chloride.

24. (NEW) A process for producing lactoperoxidase according to claim 9, further

comprising a step for obtaining solid lactoperoxidase by removing the solvent of the

lactoperoxidase solution obtained in said step (5).

25. (NEW) A process for producing lactoperoxidase according to claim 10, further

comprising a step for obtaining solid lactoperoxidase by removing the solvent of the

lactoperoxidase solution obtained in said step (5).

26. (NEW) A process for producing lactoperoxidase according to claim 11, further

comprising a step for obtaining solid lactoperoxidase by removing the solvent of the

lactoperoxidase solution obtained in said step (5).

27. (NEW) A process for producing lactoperoxidase according to claim 13, further

comprising a step for obtaining solid lactoperoxidase by removing the solvent of the

lactoperoxidase solution obtained in said step (5).

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28.

comprising a step for obtaining solid lactoperoxidase by removing the solvent of the

(NEW) A process for producing lactoperoxidase according to claim 16, further

lactoperoxidase solution obtained in said step (5).

29. (NEW) A process for producing lactoperoxidase according to claim 20, further

comprising a step for obtaining solid lactoperoxidase by removing the solvent of the

lactoperoxidase solution obtained in said step (5).

30. (NEW) A process for producing lactoperoxidase according to claim 24, wherein

a purity of the solid lactoperoxidase is 80% or more.

31. (NEW) A process for producing lactoperoxidase according to claim 25, wherein

a purity of the solid lactoperoxidase is 80% or more.

32. (NEW) A process for producing lactoperoxidase according to claim 26, wherein

a purity of the solid lactoperoxidase is 80% or more.

33. (NEW) A process for producing lactoperoxidase according to claim 27, wherein

a purity of the solid lactoperoxidase is 80% or more.

34. (NEW) A process for producing lactoperoxidase according to claim 28, wherein

a purity of the solid lactoperoxidase is 80% or more.

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35. (NEW) A process for producing lactoperoxidase according to claim 29, wherein a purity of the solid lactoperoxidase is 80% or more.